

DRAFT
Comprehensive Plan Cost Comparison
3/22/2017

	UAO COST ESTIMATE JULY 2012	EXPENDED TO DATE POST SETTLEMENT 2014-2016	COST TO COMPLETE REMAINING 2017-2019	TOTAL COST AT COMPLETION IN 3 YEARS	TOTAL COST AT COMPLETION WITH CONTINGENCIES	% Contingency	COST TO COMPLETE REMAINING 2017-2021	TOTAL COST AT COMPLETION IN 5 YEARS	TOTAL COST AT COMPLETION WITH CONTINGENCIES	% Contingency	NOTES
			Project Complete in 3 Years				Project Complete in 5 Years				
MassDEP Funding		\$ 600,000	\$ 600,000	\$ 1,200,000	\$ 1,200,000	0%	\$ 1,000,000	\$ 1,600,000	\$ 1,600,000	0%	2014-2021 - ETD for 3 years - Needs verification from 3/9/17 meeting - based on EPA comment
USACE Funding		\$ 3,900,000	\$ 6,100,000	\$ 10,000,000	\$ 10,000,000	10%	\$ 8,300,000	\$ 12,200,000	\$ 13,420,000	10%	Per Corps - \$3.9M (2014-2016), 2.5M (2017-2018) \$1.1M/yr (2019 - 2021)
Pro-Serv Contract (WQM/Monit)		\$ 7,500,000	\$ 7,500,000	\$ 15,000,000	\$ 16,500,000	10%	\$ 12,500,000	\$ 20,000,000	\$ 22,000,000	10%	assumes \$2.5M/yr - cost provided by Corps
Intertidal	\$ 78,400,763										
UH Intertidal		\$ -	\$ 44,611,200	\$ 44,611,200	\$ 53,533,440	20%	\$ 44,611,200	\$ 44,611,200	\$ 53,533,440	20%	UAO assumed 48,000 CY and current approximation is 49,568 CY (no PMC, Marsh Is. or LH) - \$900/cy
Parcel 265		\$ 2,224,499	\$ -	\$ 2,224,499	\$ 2,224,499	0%	\$ -	\$ 2,224,499	\$ 2,224,499	0%	Not included in UAO estimate
PMC		\$ 1,137,718	\$ 8,288,359	\$ 9,426,077	\$ 10,368,685	10%	\$ 8,288,359	\$ 9,426,077	\$ 10,368,685	10%	UAO included this with intertidal volume. CTC includes SES, T&D, sheetpile install
BtB and LH		\$ -	\$ 2,622,085	\$ 2,622,085	\$ 3,933,128	50%	\$ 2,622,085	\$ 2,622,085	\$ 3,933,128	50%	Estimate from Jacobs proposal dated May 17, 2016; added fee in Rev9
Marsh Island	\$ 3,380,452		\$ 1,620,000	\$ 1,620,000	\$ 1,782,000	10%	\$ 1,620,000	\$ 1,620,000	\$ 1,782,000	10%	1800 cubic yards and average cost for on shore and mechanical dredge (PMC). \$900/cy
Aerovox											
Aerovox Interim Cap		\$ -	\$ 4,800,000	\$ 4,800,000	\$ 6,240,000	30%	\$ 4,800,000	\$ 4,800,000	\$ 6,240,000	30%	Assumed 3 ft carbon sand cover (per Corps direction). Temporary solution does not complete final remedy.
Interim Cap LTM			\$ 450,000	\$ 450,000	\$ 540,000	20%	\$ 750,000	\$ 750,000	\$ 900,000	20%	Assumed annual benthic and sampling of cover and reporting. No replacement costs.
Cells 1, 2, 3	\$ 23,958,630										
Cells 1, 2, 3 Interim Remedy			\$ 1,000,000	\$ 1,000,000	\$ 1,200,000	20%	\$ 1,000,000	\$ 1,000,000	\$ 1,200,000	20%	
Full Demob	\$ 7,977,325	\$ -	\$ 5,785,460	\$ 5,785,460	\$ 7,810,370	35%	\$ 5,785,460	\$ 5,785,460	\$ 7,810,370	35%	CTC from May 2016 Jacobs proposal. Contingency based upon undefined future status and necessary improvement of Areas C and D.
Dredge & Fill LHCC	\$ 39,838,604		\$ -	\$ -	\$ -	0%		\$ -	\$ -	0%	
Construct CAD Cell		\$ 11,000,000		\$ 11,000,000	\$ 11,000,000	0%		\$ 11,000,000	\$ 11,000,000	0%	UAO costs for all work related to CAD Cell, less the \$9M from EPA HQ (need to verify if paid back)
Dredge and Fill LHCC - Jacobs		\$ 13,000,000		\$ 13,000,000	\$ 13,000,000	0%		\$ 13,000,000	\$ 13,000,000	0%	Jacobs LH dredging to date
UH & LH to LHCC Mechanical - Jacobs		\$ 642,867	\$ 7,202,775	\$ 7,845,642	\$ 9,414,770	20%	\$ 7,202,775	\$ 7,845,642	\$ 9,414,770	20%	One plant 120 days (existing UH CTC plus 37C&D, MU25, T&T'), includes current Jacobs costs
Dredge and Fill LHCC - BV			\$ 17,000,000	\$ 17,000,000	\$ 18,700,000	10%	\$ 17,000,000	\$ 17,000,000	\$ 18,700,000	10%	Per USACE Email (3/16/17) changed from \$18M to \$17M. Fixed Cost Contract estimate
Survey Contract - BV			\$ 700,000	\$ 700,000	\$ 700,000	0%	\$ 700,000	\$ 700,000	\$ 700,000	0%	Per USACE Email (3/16/17) changed from \$800k to \$700k. Based on award to Bryant
Between the Bridges Subtidal		\$ -	\$ 2,159,328	\$ 2,159,328	\$ 2,591,194	20%	\$ 2,159,328	\$ 2,159,328	\$ 2,591,194	20%	Negotated and Awarded, added fee in Rev9
Dredge Cleanup Passes - Jacobs			\$ 1,700,000	\$ 1,700,000	\$ 1,870,000	10%	\$ 1,700,000	\$ 1,700,000	\$ 1,870,000	10%	10% cleanup passes, based on BV CTC
Cap LHCC	\$ 5,780,303	\$ -	\$ 5,100,000	\$ 5,100,000	\$ 5,992,500	18%	\$ 5,100,000	\$ 5,100,000	\$ 5,992,500	18%	Cost estimate from EPA
Hydraulic Dredging	\$ 154,456,091	\$ 64,548,103	\$ -	\$ 64,548,103	\$ 64,548,103	0%	\$ -	\$ 64,548,103	\$ 64,548,103	0%	2014 through 2016 dredging less \$12M, PMC, Parcel 265 and fixed costs
Temporary Pipeline Relo		\$ -	\$ 235,659	\$ 235,659	\$ 235,659	0%	\$ 235,659	\$ 235,659	\$ 235,659	0%	Negotated and Awarded
Capping DDA		\$ -	\$ -	\$ -	\$ -	20%	\$ -	\$ -	\$ -	20%	Capping of DDA cost estimated from ESD 4
Residual management sand		\$ -	\$ 11,700,000	\$ 11,700,000	\$ 12,870,000	10%	\$ 11,700,000	\$ 11,700,000	\$ 12,870,000	10%	This is an assumed volume of 100,000 cy
LHCC O&M	\$ 580,163	\$ -	\$ 689,052	\$ 689,052	\$ 689,052	0%	\$ 689,052	\$ 689,052	\$ 689,052	0%	Cost to Complete is escalated UAO cost (3.5%)
Seafood Monitoring	\$ 721,387	\$ -	\$ 579,290	\$ 579,290	\$ 579,290	0%	\$ 579,290	\$ 579,290	\$ 579,290	0%	Costs from MassDEP
Benthic Monitoring	\$ 818,703	\$ -	\$ 972,362	\$ 972,362	\$ 972,362	0%	\$ 972,362	\$ 972,362	\$ 972,362	0%	Cost to Complete is escalated UAO cost (3.5%)
Fixed Costs	\$ 54,927,518										Jacobs Fixed Costs,
Project Management and Admin		\$ 3,584,971	\$ 3,633,416	\$ 7,218,387	\$ 7,940,226	10%	\$ 6,055,694	\$ 9,640,665	\$ 10,604,731	10%	
Site Ops and Warehouse		\$ 2,608,019	\$ 2,643,262	\$ 5,251,281	\$ 5,776,409	10%	\$ 4,405,437	\$ 7,013,456	\$ 7,714,802	10%	
Air Monitoring		\$ 964,636	\$ 459,506	\$ 1,424,142	\$ 1,566,555.67	10%	\$ 765,843	\$ 1,730,479	\$ 1,903,526	10%	
SUBTOTAL	\$ 370,839,939	\$ 111,710,813	\$ 138,151,754	\$ 249,862,567	\$ 273,778,243		\$ 150,542,543	\$ 262,253,357	\$ 288,398,112		Complete all work listed above.
SETTLEMENT AMOUNT				\$ 366,250,000	\$ 366,250,000			\$ 366,250,000	\$ 366,250,000		
INTEREST				\$ 2,000,000	\$ -			\$ 2,000,000	\$ -		EPA assumption, correct interest rates and values to be provided, per EPA \$2M in avail. Funding but not in contingency.
AVAILABLE FOR FUTURE SUBTIDAL			\$ 118,387,433	\$ 92,471,757			\$ 105,996,643	\$ 77,851,888			Settlement less Subtotal of work listed above, Funds available to dredge subtidal areas
SUBTIDAL CUBIC YARDS - HYBRID			\$ 283,224	\$ 221,224			\$ 253,580	\$ 186,249			\$418/CY Hybrid dredging, desanding, dewatering, and T&D
Aerovox Sediment Removal		\$ -	\$ 18,627,241	\$ 18,627,241	\$ 27,940,861	50%	\$ 18,627,241	\$ 18,627,241	\$ 27,940,861	50%	
Capping DDA			\$ -	\$ -	\$ -	20%	\$ -	\$ -	\$ -	20%	Included in Cells #123 Final Remedy.
Cells 1,2, 3 Final Remedy - no mixed waste				\$ 16,613,069	\$ 21,596,990	30%		\$ 16,613,069	\$ 21,596,990	30%	
Cells 1, 2, 3 Final Remedy			\$ 22,969,595	\$ 22,969,595	\$ 29,860,474	30%	\$ 22,969,595	\$ 22,969,595	\$ 29,860,474	30%	Includes \$1,781,530 to cap the DDA.